### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



## 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1 (1814) 1

(43) International Publication Date 23 December 2004 (23.12.2004)

PCT

# (10) International Publication Number WO 2004/111383 A1

(51) International Patent Classification7:

E21B 37/06

(21) International Application Number:

PCT/RO2004/000008

(22) International Filing Date:

5 April 2004 (05.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

a 2003 00519

13 June 2003 (13.06.2003) RO

(71) Applicants and

- (72) Inventors: SLEMCU, Nicolae [RO/RO]; Aleea Postăvaru nr. 2D, bl. C4B, sc. A, ap. 9, sec, tor3;, Bucuresti; (RO). VASILIU, Mircea, Ioan, Răzvan [RO/RO]; B-dul Unirii nr. 33, bl.A2, s.2, ap.37, sector 3, Bucuresti (RO). TOANCHINA, Cristian, Dragos [RO/RO]; Bd-ul Ion C. Brătianu nr.6, ap.9bis, sector 3, Bucuresti (RO).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- with amended claims and statement

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SUBSTANCES TO STIMULATE THE EXTRACTION OF CRUDE OIL AND A METHOD OF PROCESSING THEM

(57) Abstract: Substances to stimulate the extraction of crude oil and a method of processing them: This invention is about substances to stimulate the extraction of crude oils, especially the ponderous and paraffin one, not clogging the route and the abutting deposits of the oil derrick by changing the deposit's reology and also about solubility of the aggregates which were made from paraffin resins on the oil derrick's circulation route, using a similar chemical vector to the prodrugs from the medicine industry. The substance to stimulate the extraction of crude oil by increasing the fluidization characterized by the fact that 90% from the volume is made by mixing three fractions oil types from the distilled mineral coal: -20-30% phenol oil (fraction distilled from 170-190 °C); -20-40% absorption oil (fraction distilled from 250-270 °C); -20-40% polymerized oil (fraction distilled from 320-350 °C); which is called chemical vector and till 100% is completing itself with organic reactive like solvents, active-tensioned substances, generating gas substances.

